



PATENT
Customer No. 22,852
Attorney Docket No. 9724.0001.00000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
)	
Hajime HIRAMATSU et al.)	Group Art Unit: Not Yet Assigned
)	
Application No.: 10/522,789)	Examiner: Not Yet Assigned
)	
Filed: January 28, 2005)	
)	
For: THREE-DIMENSIONAL)	Confirmation No.: Not Yet Assigned
STRUCTURE OF DIPEPTIDYL)	
PEPTIDASE IV)	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), applicants bring to the attention of the Examiner the documents on the attached listing. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

Copies of the listed foreign and non-patent literature documents are attached.
Copies of the U.S. patent publications are not enclosed.

Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed

documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and applicant determines that the cited documents do not constitute "prior art" under United States law, applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

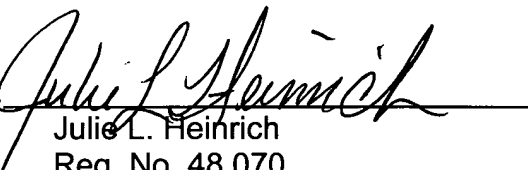
Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

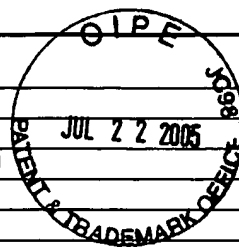
Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: July 21, 2005

By 
Julie L. Heinrich
Reg. No. 48,070

IDS Form PTO/SB/08: Substitute for form 1449A/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(Use as many sheets as necessary)</p>				Complete if Known	
		Application Number	10/522,789		
		Filing Date	January 28, 2005		
		First Named Inventor	Hajime HIRAMATSU		
		Art Unit	Not yet assigned		
		Examiner Name	Not yet assigned		
		Attorney Docket Number	09724.0001-00000		
Sheet	1	of	2		



U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS					
Examiner Initials	Cite No. ¹	Document Number	Issue or Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US-			
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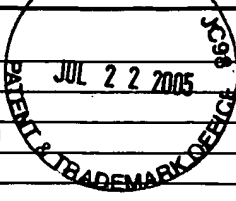
Note: Submission of copies of U.S. Patents and published U.S. Patent Applications is not required.

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)			

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation ⁶
	1	International Search Report mailed December 16, 2003, for PCT application number PCT/JP2003/009523, filed July 28, 2003.	
	2	ABBOTT et al. "Binding to Human Dipeptidyl Peptidase IV by Adenosine Deaminase and Antibodies that Inhibit Ligand Binding Involves Overlapping, Discontinuous Sites on a Predicted β Propeller Domain" European Journal of Biochemistry (1999) 266:798-810.	
	3	AUGUSTYNS et al. "The Unique Properties of Dipeptidyl-Peptidase IV (DPP IV/CD26) and the Therapeutic Potential of DPP IV Inhibitors" Current Medicinal Chemistry (1999) 6 (4):311-327.	
	4	DARMOUL et al. "Dipeptidyl Peptidase IV (CD 26) Gene Expression in Enterocyte-like Colon Cancer Cell Lines HT-29 and Caco-2" The Journal of Biological Chemistry (1992) 267 (7):4824-4833.	
	5	DARMOUL et al. GenBank Accession No. M80536, H. Sapiens Dipeptidyl Peptidase IV (DPP4) mRNA, Complete CDs (1992).	

Examiner Signature	Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

IDS Form PTO/SB/08: Substitute for form 1449A/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(Use as many sheets as necessary)</p>				Complete if Known	
					
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				First Named Inventor	Hajime HIRAMATSU
				Art Unit	Not yet assigned
				Examiner Name	Not yet assigned
				Attorney Docket Number	09724.0001-00000
Sheet	2	of	2		

NON PATENT LITERATURE DOCUMENTS			
6		ENGEL et al. "The Crystal Structure of Dipeptidyl Peptidase IV (CD26) Reveals its Functional Regulation and Enzymatic Mechanism" Proceedings of the National Academy of Sciences of the United States (2003) 100 (9):5063-5068.	
7		FULOP et al. "Prolyl Oligopeptidase: An Unusual β -Propeller Domain Regulates Proteolysis" Cell (1998) 94:161-170.	
8		HIRAMATSU et al. "The Structure and Function of Human Dipeptidyl Peptidase IV, Possessing a Unique Eight-Bladed β -Propeller Fold" Biochemical and Biophysical Research Communications (2003) 302:849-854.	
9		KABASHIMA et al. "Dipeptidyl Peptidase IV from <i>Xanthomonas maltophilia</i> : Sequencing and Expression of the Enzyme Gene and Characterization of the Expressed Enzyme" Journal of Biochemistry (1996) 120 (6):1111-1117	
10		LAMBEIR et al. "A Prediction of DPP IV/CD26 Domain Structure from a Physico-Chemical Investigation of Dipeptidyl Peptidase IV (CD26) from Human Seminal Plasma" Biochemica et Biophysica Acta (1997) 1340:215-226.	
11		MEDRANO et al. "Structure of Proline Iminopeptidase from <i>Xanthomonas Campestris</i> pv. <i>Citri</i> : a Prototype for the Prolyl Oligopeptidase Family" European Molecular Biology Organization Journal (1998) 17 (1):1-9.	
12		MISUMI et al. "Molecular Cloning and Sequence Analysis of Human Dipeptidyl Peptidase IV, a Serine Proteinase on the Cell Surface" Biochemica et Biophysica Acta. (1992) 1131:333-336.	
13		MISUMI et al. GenBank Accession No. X60708 S40353, Human pCHDP7 mRNA for Liver Dipeptidyl Peptidase IV (1991)	
14		OEFNER et al. "High-Resolution Structure of Human Apo Dipeptidyl Peptidase IV/CD26 and its Complex with 1-[(2-[(5-iodopyridin-2-yl)amino]-ethyl)amino]-acetyl]-2-cyano-(S)-pyrrolidine" Acta Crystallographica (2003) D59:1206-1212.	
15		OGATA et al. "Identification of the Active Site Residues in Dipeptidyl Peptidase IV by Affinity Labeling and Site-Directed Mutagenesis" Biochemistry (1992) 31:2582-2587.	
16		POLGAR, L. "The Prolyl Oligopeptidase Family" Cellular and Molecular Life Sciences (2002) 59:349-362.	
17		RASMUSSEN et al. "Crystal Structure of Human Dipeptidyl Peptidase IV/CD26 in Complex with a Substrate Analog" Nature Structural Biology (2003) 10 (1):19-25.	

Examiner Signature		Date Considered	
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